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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/676,405	09/29/2000	WALTER W. BUTLER	K35A0458	1929
26332	7590 06/14/2002			
WESTERN DIGITAL CORP. 20511 LAKE FOREST DRIVE C205 - INTELLECTUAL PROPERTY DEPARTMENT			EXAMINER	
			CASTRO, ANGEL A	
LAKE FORES	ST, CA 92630		ART UNIT	PAPER NUMBER
			2651	
			DATE MAILED: 06/14/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	M	
Office Action Summary		09/676,405	BUTLER, WALTER W.	BUTLER, WALTER W.	
		Examiner	Art Unit		
		Angel A. Castro	2651		
Period f	The MAILING DATE of this communication or Reply	appears on the cover shee	et with the correspondence address	<b>5</b>	
THE - External control	MAILING DATE OF THIS COMMUNICATION AND AND AND AND AND AND AND AND AND AN	DN. FR 1.136(a). In no event, however, m. n. a reply within the statutory minimum of the control	ay a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this commun ne ABANDONED (35 U.S.C. § 133)	ication.	
Status 1)⊠	Responsive to communication(s) filed on	11 Fobruary 2002			
2a)□	, , ,	This action is non-final.			
3)□	,		matters, prosecution as to the me	vrito io	
,	closed in accordance with the practice unition of Claims	nder <i>Ex parte Quayle</i> , 1935	5 C.D. 11, 453 O.G. 213.	ints is	
4)⊠	Claim(s) 1-8 is/are pending in the application	tion.			
	4a) Of the above claim(s) $\underline{5-8}$ is/are withdra	awn from consideration.			
5)[	Claim(s) is/are allowed.				
6)⊠	Claim(s) <u>1-4</u> is/are rejected.				
7)	Claim(s) is/are objected to.				
	Claim(s) are subject to restriction a	nd/or election requirement			
Applicat	ion Papers				
9)[	The specification is objected to by the Exar	miner.			
10)	The drawing(s) filed on is/are: a) a		•		
	Applicant may not request that any objection		•		
11)	The proposed drawing correction filed on _		disapproved by the Examiner.		
40)□	If approved, corrected drawings are required	, ,			
	The oath or declaration is objected to by the	e Examiner.			
	under 35 U.S.C. §§ 119 and 120				
	Acknowledgment is made of a claim for fo	reign priority under 35 U.S	.C. § 119(a)-(d) or (f).		
a)	□ All b)□ Some * c)□ None of:				
	1. Certified copies of the priority documents	nents have been received.			
	2. Certified copies of the priority docum	nents have been received	in Application No		
* (	3. Copies of the certified copies of the application from the International See the attached detailed Office action for a second control of the control o	al Bureau (PCT Rule 17.2(a	a)).	е	
	Acknowledgment is made of a claim for don			lication).	
_ 6	a) The translation of the foreign language Acknowledgment is made of a claim for dor	e provisional application ha	as been received.	,	
Attachmer		p			
2) 🔲 Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No	3) 5) Notic	view Summary (PTO-413) Paper No(s) e of Informal Patent Application (PTO-152		

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### **DETAILED ACTION**

#### Election/Restrictions

- 1. Applicant's election without traverse of invention I in Paper No. 4 is acknowledged.
- 2. Claims 5-8 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention II, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 4.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Helms et al (U.S. Pat. 3,700,855).

Regarding claim 1, Helms et al discloses a disk drive with improved shrouding (figures 1-5), comprising a disk 14; a motor 20 for rotating the disk; a head (column 3, line 35); an actuator arm for actuating the head radially over the disk (column 3, line 36); a base 82; and a cover 28, 82 attached to the base to form a head disk assembly chamber, the cover comprising an inner surface 30 (the part of cover 82 also has an inner surface) and an outer surface; and a shroud 22 extending axially from the inner surface into the head disk assembly chamber

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substantially enveloping the periphery of the disk, including at least part of the periphery coextensive with the actuator arm, to provide radial shrouding of the disk.

Regarding claim 2, Helms discloses that the shroud is a separate piece adhered to the inner surface of the cover (see figures 2 or 5).

Regarding claim 3, Helms discloses the cover and shroud described above.

As the claims are directed to a disk drive, per se, the method limitations appearing in lines 1-2 of claim 3 has only been accorded weight to the extent that it affects the structure of the completed disk drive. Note that determination of patentability in 'product-by-process' claims is based on product itself, even though such claims are limited and defined by process [i.e., "form molded"], and thus product in such claim is unpatentable if it is the same as, or obvious form, product of prior art, even if prior product was made by a different process", *In re Thorpe, et al.*, 227 USPQ 964 (CAFC 1985). Furthermore, note that a "product-by-process" claim, although reciting subject matter of claim in terms of how it is made [i.e., "form molded"] is still product claim; it is patentability of product claimed and not recited process steps that must be established, in spite of fact that claim may recite only process limitations", *In re Hirao and Sato*, 190 USPQ 685 (CCPA 1976).

5. Claims 1 and 4 are rejected under 35 U.S.C. 102(e) as being anticipated by Hendriks (U.S. Pat. 6,091,570).

Regarding claim 1, Hendriks discloses a disk drive (figures 4-5), comprising a disk 40; a motor (not shown) for rotating the disk; a head 28; an actuator arm 20 for actuating the head radially over the disk; a base (shown but labeled); and a cover 60 attached to the base to form a head disk assembly chamber, the cover comprising an inner surface (shown but not labeled)

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and an outer surface; and a shroud (shown but not labeled in figure 5) extending axially from the inner surface into the head disk assembly chamber substantially enveloping the periphery of the disk, including at least part of the periphery coextensive with the actuator arm, to provide radial shrouding of the disk.

Regarding claim 4, Hendriks discloses that the cover further comprises a substantially C-shaped depression positioned substantially concentric over the disk to provide axial shrouding (see figure 5).

#### Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Boutaghou (U.S. Pat. 5,696,649) discloses an elastic insert shroud to provide maximum effective shrouding in high speed disk drives; Brown et al (U.S. Pat. 5,124,856) discloses a magnetic recording device with unitary filter medium; Campbell (U.S. Pat. 4,581,668) discloses a disk contour cover having air filtration section; Koizumi (JP 2000-040340) discloses a magnetic disk device (see figure 15); Iida et al (JP 59-218682) discloses a magnetic disk device).
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angel A. Castro whose telephone number is 703-308-8435. The examiner can normally be reached on Monday through Thursday, 8 AM to 6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on 703-308-4825. The fax phone numbers for the

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organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-308-8435 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4750.

Angel Castro, Ph.D. June 11, 2002

> DAVID HUDSPETH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600